PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY		REC'D 1 6 NOV 2009	;
To:		PC'I	
SUSAN M. DADIO BURNS, DOANE, SWECKER & MATHIS, LLP		WIPO F	CT
P. O. BOX 1404	WRI'	TTEN OPINION OF THE	
ALEXANDRIA, VA 22313-1404	INTERNATIO	NAL SEARCHING AUTHORITY	
		(PCT Rule 43bis.1)	7
	Date of mailing (day/month/year)	[4 NOV 2005	_
Applicant's or agent's file reference	FOR FURTHER	ACTION See paragraph 2 below	
024126 022			╣
034136-023 International application No. International filing date	e (day/month/year)	Priority date (day/month/year)	
05 X5 1 0005 005 03	.2005)	26 March 2004 (26.03.2004)	4
PCT/US05/10220 25 March 2003 (25.03 International Patent Classification (IPC) or both national classific	ation and IPC		
· ·			4
IPC(7): C07F 5/00, 13/00 and US Cl.: 534/10, 11, 12, 13, 14, 1 Applicant	.5, 15		-
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LUNA INNOVATIONS INCORPORATED			٦
1. This opinion contains indications relating to the following it	ems:		
Box No. I Basis of the opinion			
Box No. II Priority		•	
Box No. III Non-establishment of opinion with	regard to novelty, inve	entive step and industrial applicability	
Box No. IV Lack of unity of invention	•	to to and a	
Box No. V Reasoned statement under Rule 43 applicability; citations and explana	bis.1(a)(i) with regard tions supporting such s	to novelty, inventive step or industrial statement	
Box No. VI Certain documents cited			
Box No. VII Certain defects in the international			
Box No. VIII Certain observations on the interna	ational application		
2. FURTHER ACTION If a demand for international preliminary examination is a International Preliminary Examining Authority ("IPEA"). Authority other than this one to be the IPEA and the chost that written opinions of this International Searching Authority.	en IPEA has notified t	the International Bureau under Rule 66.1bis(b)	
If this opinion is, as provided above, considered to be a viPEA a written reply together, where appropriate, with mailing of Form PCT/ISA/220 or before the expiration of	written opinion of the amendments, before 22 months from the page 25.	IPEA, the applicant is invited to submit to the the expiration of 3 months from the date of riority date, whichever expires later.	'
For further options, see Form PCT/ISA/220.			
3. For further details, see notes to Form PCT/ISA/220.			\dashv
Name and mailing address of the ISA/ US	Authorized offi	cer Xame Aille)	
Mail Stop PCT, Atm: ISA/US	Gary L. Weich	Jamy Jupe	
Commissioner for Patents P.O. Box 1450	Telephone No.		- 1
Alexandria, Virginia 22313-1450	rerebuone 140.	(3/2) 2/2 (3/2)	

Pacsimile No. (703) 305-3230
Form PCT/ISA/237 (cover sheet) (January 2004)

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US05/10220

Box N	o. I Basis of this opinion
1. With	regard to the language, this opinion has been established on the basis of the international application in the language in which sfiled, unless otherwise indicated under this item.
	This opinion has been established on the basis of a translation from the original language into the following language ————————————————————————————————————
2. With claim	regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the led invention, this opinion has been established on the basis of:
a.	type of material
	a sequence listing
	table(s) related to the sequence listing
b.	format of material
	in written format
•	in computer readable form
c.	time of filing/furnishing
	contained in international application as filed.
	filed together with the international application in computer readable form.
	furnished subsequently to this Authority for the purposes of search.
3.	In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4. Ad	ditional comments:
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1.	

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US05/10220

	nations supp	with regard to novelty, inventive step or in orting such statement	
Statement			
Novelty (N)	Claims	1-8	YE
• •		NONE	ио
Inventive step (IS)	Claims	1-8	YE
Thremine sich (19)		NONE	NO
		1.0	YE
Industrial applicability (IA)	Claims		YE
	Claims	NONE	
drogensulfated trimetallic nitride endohedral met drogensulfate groups covalently bonded to a full	alloffullerene d erene encapsula		
laims 1-8 meet the criteria set out in PCT Article	33(4), and thu	s have industrial applicability because the subject n	natter claimed
an be made or used in industry.			-
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PATENT COOPERATION TREATY

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From the NTERNATIONAL SEARCHING AUTHORIT	гү	REC'D 1 6 NOV 2005
To: SUSAN M. DADIO		PC" WIPO POT
BURNS, DOANE, SWECKER & MATHIS,	LLP	ITTEN OPINION OF THE
P. O. BOX 1404 ALEXANDRIA, VA 22313-1404	INTERNATI	ONAL SEARCHING AUTHORITY
	·	(PCT Rule 43bis.1)
	Date of mailing (day/month/year)	1 4 NOV 2005
Applicant's or agent's file reference	FOR FURTHER	RACTION See paragraph 2 below
034136-023	ternational filing date (day/month/year)	Priority date (day/month/year)
International approximation		26 March 2004 (26.03.2004)
PCT/US05/10220 25 International Patent Classification (IPC) or b	March 2005 (25.03.2005)	20 Match 2001 (23/05/2)
IPC(7): C07F 5/00, 13/00 and US Cl.: 534/	10, 11, 12, 13, 14, 15, 16	
Applicant		
LUNA INNOVATIONS INCORPORATED)	
1. This opinion contains indications relating	ng to the following items:	
Box No. I Basis of the op	oinion	
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
Box No. II Priority	to a section to	nyantive step and industrial applicability
Box No. III Non-establish	ment of opinion with regard to novelty, in	nventive step and industrial office
Box No. IV Lack of unity	of invention	
	ement under Rule 43bis.1(a)(i) with rega citations and explanations supporting suc	rd to novelty, inventive step or industrial ch statement
Box No. VI Certain docur		·
	ts in the international application	
	rvations on the international application	
2. FURTHER ACTION		to be a surjeten oninion of the
Authority other than this one to be the that written opinions of this Internation	ne IPEA and the chosen IPEA has notified on all Searching Authority will not be so contains a searching Authority will not be so contains.	will be considered to be a written opinion of the does not apply where the applicant chooses an ed the International Bureau under Rule 66.1bis(b) onsidered.
IPEA a written reply together, whe	fore the expiration of 22 months from the	he IPEA, the applicant is invited to submit to the ore the expiration of 3 months from the date of e priority date, whichever expires later.
For further options, see Form PCT/I	SA/220.	
3. For further details, see notes to Form	n PCT/ISA/220.	A
Name and mailing address of the ISA/ U	S Authorized	officer Xama And
Mail Stop PCT, Atm: ISA/US	Gary L. W	etch Savry Juliu
Commissioner for Patents	Tolenhone I	No. (571) 272-4996
Alexandria, Virginia 22313-1450	retebuone i	10. (E. 2) E. E

Pacsimile No. (703) 305-3230
Form PCT/ISA/237 (cover sheet) (January 2004)

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US05/10220

Box No	. I Basis of this opinion
****	regard to the language, this opinion has been established on the basis of the international application in the language in which
i. With i it was	filed, unless otherwise indicated under this item.
	This opinion has been established on the basis of a translation from the original language into the following language , which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and
	23.1(b)).
2. With claim	regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the ed invention, this opinion has been established on the basis of:
a.	type of material
	a sequence listing
	table(s) related to the sequence listing
b.	format of material
	in written format
	in computer readable form
c.	time of filing/furnishing
C.	contained in international application as filed.
	filed together with the international application in computer readable form.
	furnished subsequently to this Authority for the purposes of search.
	Turnished subsequently to this Admitty to the Parkets
3. 🔲	In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been
	In addition, in the case that more than one version or copy of a sequence noting and or additional copies is identical to that in filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4. Add	itional comments:
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WRITTEN OPINION OF THE

International application No. PCT/US05/10220

ox No. V Reasoned statement under Rule applicability; citations and expla	a 43 bis.1(a)(i) mations suppo	orting such statement	l solution and the solu	
Statement				
Novelty (N)	Claims	1-8		YES
Noveky (14)				ио
				YES
Inventive step (IS)	Claims	1-8		
	Claims	NONE		
Industrial applicability (IA)	Claims	1-8		YE
moustrial approaching ()				NO
laims 1-8 meet the criteria set out in PCT Article drogensulfated trimetallic nitride endohedral met drogensulfate groups covalently bonded to a full-	tanonunerene c lerene encapsula	ted a trimetallic nitride.		, \
laims 1-8 meet the criteria set out in PCT Article	33(4), and thu	s have industrial applicat	oility because the subject	matter claimed
an be made or used in industry.		•		
	•			
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